

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,677	09/17/2003	David Bayreuther	230110US26	2490	
22850	7590 12/23/2004		EXAMINER		
OBLON, SF 1940 DUKE	PIVAK, MCCLELLAN	SPITZER, ROBERT H			
	IA, VA 22314	ART UNIT	PAPER NUMBER		
	•		1724		

DATE MAILED: 12/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

• •								
		Applicati	on No.	Applicant(s)	<u> </u>			
Office Action Summary		10/663,6	77	BAYREUTHER, DAVII	D			
		Examine	•	Art Unit				
		Robert H.		1724				
The Period for Rep	MAILING DATE of this communic	ation appears on th	e cover sheet with the	correspondence addres	ss			
A SHORTE THE MAILIN - Extensions of after SIX (6) N - If the period fc - If NO period fc - Failure to repl Any reply rece	NED STATUTORY PERIOD FO NG DATE OF THIS COMMUNIC time may be available under the provisions of MONTHS from the mailing date of this commun or reply specified above is less than thirty (30) or reply is specified above, the maximum statu by within the set or extended period for reply wit	ATION. 37 CFR 1.136(a). In no evinication. days, a reply within the startory period will apply and will, by statute, cause the app	ent, however, may a reply be til tutory minimum of thirty (30) da rill expire SIX (6) MONTHS from blication to become ABANDONE	mely filed ys will be considered timely. the mailing date of this commu	inication.			
Status								
1)☐ Respo	onsive to communication(s) filed	on						
	This action is FINAL . 2b) This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
4a) Of 5)⊠ Claim 6)⊠ Claim 7)□ Claim 8)□ Claim	Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1-7 and 13-21 is/are allowed. Claim(s) 8-12 and 22-30 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Application Pa					•			
10)⊠ The dr Applica Replac	pecification is objected to by the rawing(s) filed on <u>17 September</u> ant may not request that any objectivement drawing sheet(s) including that or declaration is objected to be	2003 is/are: a) ☐ a on to the drawing(s) in a correction is required.	oe held in abeyance. Se red if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1	.121(d).			
Priority under	35 U.S.C. § 119							
a) <u></u> AII 1. <u></u> 2. <u></u> 3.	wledgment is made of a claim fo b) Some * c) None of: Certified copies of the priority do Certified copies of the priority do Copies of the certified copies of application from the International attached detailed Office action	ocuments have been ocuments have been the priority documents all Bureau (PCT Rui	en received. en received in Applicat ents have been receiv e 17.2(a)).	ion No ed in this National Sta	ge			
Attachment(s)	•							
1) Notice of Ref	erences Cited (PTO-892)		4) Interview Summary					
3) 🔯 Information 🗅	ftsperson's Patent Drawing Review (PTC) bisclosure Statement(s) (PTO-1449 or PT Mail Date <u>09/17/2003</u> .	O-948) FO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152	2)			

Application/Control Number: 10/663,677 Page 2

Art Unit: 1724

DETAILED ACTION

1. Claims 1-7 and 13-21 are allowed.

2. The abstract of the disclosure is objected to because of undue length, as it is approximately 170 words long. Correction is required. See MPEP § 608.01(b).

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- 3. The drawing figures are objected to because there are no numbers 22b-22e and 30a thereon. Either the numbers must be added to the drawing figures or deleted from the specification.
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 8-12 and 22-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 8 is indefinite because there is no direct antecedent basis for the recitation of "said motor assembly". Claim 9 is indefinite because it recites "said first disc includes five holes" without any correlation to "a first

Art Unit: 1724

disc including two holes" previously recited in claim 5, and because it recites "said second disc includes a first aperture, a second aperture, a third aperture, a fourth aperture, and a fifth aperture" without any correlation to the "two apertures" previously recited in claim 5. Claim 10 is indefinite because it depends from indefinite claim 9. Claim 11 is indefinite because there is no direct antecedent basis for the recitation of "said second and third passageways". Claim 12 is indefinite because there is no direct antecedent basis for the recitation of "said first valve element". Claim 22 is indefinite because it has two steps labeled "(iv)" and no step "(v)". Claims 23-26 and 28-30 are indefinite because they depend from indefinite claim 22. Claim 27 is indefinite because there is no direct antecedent basis for the recitation of "said step (v)".

- 6. Claims 8-12 and 22-30 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 7. The references listed on both the PTO-1449 and the PTO-892 show art of interest only, over which the claims define allowable subject matter, as none of the references show a continuous drive mechanism being used through intermittent means to control the movement of valve discs.
- 8. Applicant's response to this Office action should also include the following editorial changes: para. [0026], line 1, "2B" should be "1B"; para. [0027], line 13, "manger" should be "manner"; para. [0030], line 4, "hole" should be "holes"; para. [0030], line 7, "first disc 15" should be "first disc 16"; para. [0031], line 5, "in recognized" should be "is recognized"; para. [0033], line 10, "manger" should be "manner"; para. [0036], line 1, "5" should be deleted, as there is no Fig. 5 and it is Figs. 5A and 5B which

Application/Control Number: 10/663,677

Art Unit: 1724

show first portion 29a and not second portion 29b; para. [0039], line 7, "mercaptains"

should be "mercaptans"; para. [0039], line 8, "vessel" should be "vessels"; and, para.

[0046], line 3, "of each of" should be "of each".

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Robert H. Spitzer whose telephone number is (571)

272-1167. The examiner can normally be reached on Monday-Thursday from (5:30AM-

4:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

December 21, 2004

Robert H. Spitzer Primary Examiner Art Unit 1724 Page 4

December 21,2004